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DATE MAILED: 04/04/2006

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/646,846	08/25/2003	Jeffrey M. Brown	87326.3920 1451		
7590 04/04/2006			EXAMINER		
BAKER & HO	STETLER LLP	YENKE, BRIAN P			
Washington Squ	iare, Suite 1100	·			
1050 Connectic	ut Avenue, N.W.	ART UNIT	PAPER NUMBER		
Washington, De	C 20036	2622			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	Application No. Applicant(s)					
Office Action Summary		10/646,8	1 6	BROWN ET AL.				
		Examine		Art Unit				
		BRIAN P.		2622				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
WHIC - Exten after: - If NO - Failur Any re	DRTENED STATUTORY PERIOD FOR RECEIVER IS LONGER, FROM THE MAILING sions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by seply received by the Office later than three months after the not patent term adjustment. See 37 CFR 1.704(b).	G DATE OF TH R 1.136(a). In no event. In the control of the contro	IIS COMMUNICATION ent, however, may a reply be tim Il expire SIX (6) MONTHS from ication to become ABANDONE	N. nely filed the mailing date of this c D (35 U.S.C. § 133).				
Status								
1)	Responsive to communication(s) filed on _							
		 This action is n	on-final					
	•			secution as to the	a morite ie			
-,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims	•	,					
4)⊠	4)⊠ Claim(s) <u>1-22</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
_	Claim(s) is/are withdrawn from consideration.							
	6)⊠ Claim(s) <u>1-22`</u> is/are rejected.							
	Claim(s) is/are objected to.							
	Claim(s) are subject to restriction ar	nd/or election r	aquirement					
		id/or election i	oquirement.					
	on Papers							
	The specification is objected to by the Exan		_					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	nder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) 🔲 Notice 3) 🔀 Inform	(s) of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449 or PTO/SB No(s)/Mail Date <u>09 Mar 05</u> .		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te	D-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. Claims 17-18 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as

the invention.

The term "identifying causes" in claim 17 is a relative statement which renders the claim indefinite. The statement is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention.

The examiner suggests using language which points out/distinctively recites how the "causes" are identified.

The term "predicting means" in claim 18 is a relative statement, which renders the claim indefinite. The statement is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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A person shall be entitled to a patent unless -

Claims 1, 4, 7-8, 13-16 and 19-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Rittman, US 6,687,632.

In considering claims 1, 7-8, 13-16 and 19-22

Rittman discloses a system which tests the CATV systems transmission by generating/transmitting quasi-random data along transmission path (22) which is recovered and analyzed for ghosts/reflections using oscilloscope 24 and PC using MATLAB 40 (Fig 5). As shown in the figure the system passes RF signals with the generated random data where the signals are analyzed at a location near the transmitted end in order to eliminate any undesirable equalization by the receiver/set-top box. Regarding the time intervals, Rittman discloses the autocorrelation of the transmitted signal with the reflected signal (col 5. line 5-15).

In considering claim 4,

Rittman discloses that the data corresponding to the reflections/ghosts of the transmitted data is recovered on digital oscilloscope 24 and then transferred to a MatLab program running on a PC 40 for analysis.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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2a, Claims 2-3, 5-6 and 9 rejected under 35 U.S.C. 103(a) as being unpatentable over Rittman, US 6,687,632 in view of AAPA (Applicant's Admitted Prior Art).

In considering claims 2-3, 5-6 and 9,

Rittman does not explicitly recite the conventional standard of transmitting a test signal (GCR)/telemetry pattern on a specific horizontal line in the NTSC stream.

However, AAPA discloses that this is a conventional feature in the art. As stated in AAPA the receiver analyzes this information, whereas the invention is at the transmission side.

Thus since Rittman discloses the concept/feature of analyzing a transmission side for reflection it would have been clearly obvious to one of ordinary skill in the art to implement the conventional testing sequence as done via AAPA which would allow the system of Rittman to test conventional transmitted NTSC signals with GCR/telemetry signals for degradation/reflection which can be analyzed by the broadcaster/transmitter in order to provide a quality signal to the viewer.

2b. Claims 10-12 and 17-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rittman, US 6,687,632.

In considering claims 10-12 and 17-18

However, Rittman does not explicitly recite a system that analyzes the physical condition of the transmission system nor generating warning signal if the system exceeds and established threshold.

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Ritman does disclose the monitoring/analyzing of the transmission system by correlating the reflections and determining a time delay in ascertaining the round trip distance to the impedance mismatch of the system. Ritman also discloses the monitoring is performed on the transmission end in determining the performance of the transmitter/system.

The analysis of the physical condition as well as the identifying causes, prediction changes (i.e. trends) and the generation of an alarm in a transmission system is conventional in the art, since the degradation/reduction of quality of a signal (i.e. TV signal) to viewers is immediately noticed on the display and hence broadcasters/transmitters employ a variety of systems/equipment to alert the possibility/reality of such degradation, thus the examiner takes "OFFICIAL NOTICE" regarding as such, since it would have been clearly obvious for a transmission system which analyzes the quality of such signals to utilize such features for the advantages as noted above.

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure—see newly cited references on attached form PTO-892.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Yenke whose telephone number is (571)272-7359. The examiner work schedule is Monday-Thursday, 0730-1830 hrs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, David L. Ometz, can be reached at (571)272-7593.

Any response to this action should be mailed to:

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Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(571)-273-8300

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is

(703)305-HELP.

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PAIR (http://pair.uspto.gov) provides customers direct secure access to their own patent application status information, as well as to general patent information publicly available. EFS allows customers to electronically file patent application documents securely via the Internet. EFS is a system for submitting new utility patent applications and pre-grant publication submissions in electronic publication-ready form. EFS includes software to help customers prepare submissions in extensible Markup Language (XML) format and to assemble the various parts of the application as an electronic submission package. EFS also allows the submission of Computer Readable Format (CRF) sequence listings for pending biotechnology patent applications, which were filed in paper form.

31 March 2006

BRIAN P. YENKE PRIMARY FYANING